EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S1	2	("6194818").PN.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/03/12 09:33
S2	3	("5130103" | "5320907" | "6001416").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2008/03/12 09:34
S3	32	("5130103" | "5320907" | "6001416").URPN.	USPAT	OR	ON	2008/03/12 09:35
S4	0	("5130103" | "5320907" | "6001416").URPN. and piezo$1element	USPAT	OR	ON	2008/03/12 09:37
S5	1	("5130103" | "5320907" | "6001416").URPN. and piezo	USPAT	OR	ON	2008/03/12 09:38
S6	19	("4668531" | "4963390" | "5116643" | "5130103" | "5198269" | "5320907" | "5491102" | "5558946" | "5644838" | "5650362" | "6001416" | "6056994" | "6066581" | "6174564" | "6194227" | "6194818" | "6343855" | "6511161" | "6748635").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2008/03/12 09:40
S7	1	("4668531" | "4963390" | "5116643" | "5130103" | "5198269" | "5320907" | "5491102" | "5558946" | "5644838" | "5650362" | "6001416" | "6056994" | "6066581" | "6174564" | "6194227" | "6194818" | "6343855" | "6511161" | "6748635").PN. and piezo	US-PGPUB; USPAT; USOCR	OR	ON	2008/03/12 09:40
S8	15	("6066581").URPN.	USPAT	OR	ON	2008/03/12 09:41
S9	2	("6066581").URPN. and piezo	USPAT	OR	ON	2008/03/12 09:42
S10	1	(US-6194818-$).did. or (EP-932209-A-$).did.	USPAT; DERWENT	OR	ON	2008/03/12 10:09
S11	64838	(relative with movement with mechanism) or ((ink$jet adj head) with move$4 with relative)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/03/12 12:50
S12	123	(relative with movement) with (ink$1jet with head with medium)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/03/12 12:52
S13	11	("6194818").URPN.	USPAT	OR	ON	2008/03/12 13:15
S14	2	("5387459").PN.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/03/24 11:05
S15	1	(US-5387459-$).did.	USPAT	OR	ON	2008/03/24 11:10
S16	1	(US-6194818-$).did.	USPAT	OR	ON	2008/03/24 11:25
S17	11	(US-7291520-$ or US-7240409-$ or US-7185540-$ or US-7067965-$ or US-7033001-$ or US-7001014-$ or US-6979938-$ or US-6974985-$ or US-6846509-$ or US-6620237-$ or US-6511161-$).did.	USPAT	OR	ON	2008/03/24 11:34
S18	15	(US-7240409-$ or US-7176079-$ or US-7083269-$ or US-7064052-$ or US-7022623-$ or US-6949477-$ or US-6932851-$ or US-6774054-$ or US-6748635-$ or US-6694082-$ or US-6664117-$ or US-6583688-$ or US-6455106-$ or US-6432238-$ or US-6146935-$).did.	USPAT	OR	ON	2008/03/24 11:35
S19	3	(US-6001416-$ or US-5320907-$ or US-5130103-$).did.	USPAT	OR	ON	2008/03/24 11:36
S20	28	S17 or S18 or S19	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/03/24 11:36
S21	28	(US-7291520-$ or US-7240409-$ or US-7185540-$ or US-7176079-$ or US-7083269-$ or US-7067965-$ or US-7064052-$ or US-7033001-$ or US-7022623-$ or US-7001014-$ or US-6979938-$ or US-6974985-$ or US-6949477-$ or US-6932851-$ or US-6846509-$ or US-6774054-$ or US-6748635-$ or US-6694082-$ or US-6664117-$ or US-6620237-$ or US-6583688-$ or US-6511161-$ or US-6455106-$ or US-6432238-$ or US-6146935-$ or US-6001416-$).did. or (US-5320907-$ or US-5130103-$).did.	USPAT	OR	ON	2008/03/24 11:37

S22	26	(US-7291520-$ or US-7240409-$ or US-7185540-$ or US-7176079-$ or US-7083269-$ or US-7067965-$ or US-7064052-$ or US-7033001-$ or US-7022623-$ or US-7001014-$ or US-6979938-$ or US-6974985-$ or US-6949477-$ or US-6932851-$ or US-6846509-$ or US-6774054-$ or US-6748635-$ or US-6694082-$ or US-6664117-$ or US-6620237-$ or US-6583688-$ or US-6511161-$ or US-6455106-$ or US-6432238-$ or US-6146935-$ or US-6001416-$).did. or (US-5320907-$ or US-5130103-$).did. and piezo	USPAT	OR	ON	2008/03/24 14:08
S23	26	(US-7291520-$ or US-7240409-$ or US-7185540-$ or US-7176079-$ or US-7083269-$ or US-7067965-$ or US-7064052-$ or US-7033001-$ or US-7022623-$ or US-7001014-$ or US-6979938-$ or US-6974985-$ or US-6949477-$ or US-6932851-$ or US-6846509-$ or US-6774054-$ or US-6748635-$ or US-6694082-$ or US-6664117-$ or US-6620237-$ or US-6583688-$ or US-6511161-$ or US-6455106-$ or US-6432238-$ or US-6146935-$ or US-6001416-$).did. or (US-5320907-$ or US-5130103-$).did. and piezo*	USPAT	OR	ON	2008/03/24 14:10
S24	2	"428"/$.ccls. and (US-7291520-$ or US-7240409-$ or US-7185540-$ or US-7176079-$ or US-7083269-$ or US-7067965-$ or US-7064052-$ or US-7033001-$ or US-7022623-$ or US-7001014-$ or US-6979938-$ or US-6974985-$ or US-6949477-$ or US-6932851-$ or US-6846509-$ or US-6774054-$ or US-6748635-$ or US-6694082-$ or US-6664117-$ or US-6620237-$ or US-6583688-$ or US-6511161-$ or US-6455106-$ or US-6432238-$ or US-6146935-$ or US-6001416-$).did. or (US-5320907-$ or US-5130103-$).did.	USPAT	OR	ON	2008/03/24 14:11
S25	7	"310"/$.ccls. and (US-7291520-$ or US-7240409-$ or US-7185540-$ or US-7176079-$ or US-7083269-$ or US-7067965-$ or US-7064052-$ or US-7033001-$ or US-7022623-$ or US-7001014-$ or US-6979938-$ or US-6974985-$ or US-6949477-$ or US-6932851-$ or US-6846509-$ or US-6774054-$ or US-6748635-$ or US-6694082-$ or US-6664117-$ or US-6620237-$ or US-6583688-$ or US-6511161-$ or US-6455106-$ or US-6432238-$ or US-6146935-$ or US-6001416-$).did. or (US-5320907-$ or US-5130103-$).did.	USPAT	OR	ON	2008/03/24 14:12
S26	3	"501"/$.ccls. and (US-7291520-$ or US-7240409-$ or US-7185540-$ or US-7176079-$ or US-7083269-$ or US-7067965-$ or US-7064052-$ or US-7033001-$ or US-7022623-$ or US-7001014-$ or US-6979938-$ or US-6974985-$ or US-6949477-$ or US-6932851-$ or US-6846509-$ or US-6774054-$ or US-6748635-$ or US-6694082-$ or US-6664117-$ or US-6620237-$ or US-6583688-$ or US-6511161-$ or US-6455106-$ or US-6432238-$ or US-6146935-$ or US-6001416-$).did. or (US-5320907-$ or US-5130103-$).did.	USPAT	OR	ON	2008/03/24 14:13
S27	7	S24 or S25 or S26	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/03/24 14:14
S28	1	piezo and (S24 or S25 or S26)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/03/24 14:21
S29	7	piezoelectric and (S24 or S25 or S26)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/03/24 14:22
S30	7	(US-7185540-$ or US-7067965-$ or US-7033001-$ or US-6979938-$ or US-6583688-$ or US-5320907-$ or US-5130103-$).did.	USPAT	OR	ON	2008/03/24 14:24
S31	4	(US-7185540-$ or US-7067965-$ or US-7033001-$ or US-6979938-$ or US-6583688-$ or US-5320907-$ or US-5130103-$).did. and (first with electrode)	USPAT	OR	ON	2008/03/24 14:24
S32	2	(US-7185540-$ or US-7067965-$ or US-7033001-$ or US-6979938-$ or US-6583688-$ or US-5320907-$ or US-5130103-$).did. and (first with electrode) and (rhombohedral or tetragonal)	USPAT	OR	ON	2008/03/24 14:33
S33	2	(US-7185540-$ or US-7067965-$ or US-7033001-$ or US-6979938-$ or US-6583688-$ or US-5320907-$ or US-5130103-$).did. and (first with electrode) and (rhombohedral or tetragonal) and perovskite	USPAT	OR	ON	2008/03/24 14:33
S34	235432	"73"/$.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/03/24 14:37
S35	131197	"310"/$.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/03/24 14:38
S36	610	73/504.16	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/03/24 14:39
S37	5	("5438231" | "5691593" | "5998236" | "6194818" | "7083270").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2008/03/24 15:09
S38	6	("5508953" | "6097133" | "6142615" | "6194818" | "6494567" | "6969157").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2008/03/24 15:10
S39	10	S37 or S38	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/03/24 15:10

S40	6	(US-6969157-$ or US-6494567-$ or US-6194818-$ or US-5998236-$ or US-5691593-$ or US-5438231-$).did.	USPAT	OR	ON	2008/03/24 15:15
S41	35	(US-6969157-$ or US-6494567-$ or US-5998236-$ or US-5691593-$ or US-5438231-$ or US-5387459-$ or US-6194818-$ or US-7291520-$ or US-7240409-$ or US-7185540-$ or US-7176079-$ or US-7083269-$ or US-7067965-$ or US-7064052-$ or US-7033001-$ or US-7022623-$ or US-7001014-$ or US-6979938-$ or US-6974985-$ or US-6949477-$ or US-6932851-$ or US-6846509-$ or US-6774054-$ or US-6748635-$ or US-6694082-$ or US-6664117-$).did. or (US-6620237-$ or US-6583688-$ or US-6511161-$ or US-6455106-$ or US-6432238-$ or US-6146935-$ or US-6001416-$ or US-5320907-$ or US-5130103-$).did.	USPAT	OR	ON	2008/03/24 15:18
S42	33	(US-6969157-$ or US-6494567-$ or US-5998236-$ or US-5691593-$ or US-5438231-$ or US-5387459-$ or US-6194818-$ or US-7291520-$ or US-7240409-$ or US-7185540-$ or US-7176079-$ or US-7083269-$ or US-7067965-$ or US-7064052-$ or US-7033001-$ or US-7022623-$ or US-7001014-$ or US-6979938-$ or US-6974985-$ or US-6949477-$ or US-6932851-$ or US-6846509-$ or US-6774054-$ or US-6748635-$ or US-6694082-$ or US-6664117-$).did. or (US-6620237-$ or US-6583688-$ or US-6511161-$ or US-6455106-$ or US-6432238-$ or US-6146935-$ or US-6001416-$ or US-5320907-$ or US-5130103-$).did. and @pd<="20030304"	USPAT	OR	ON	2008/03/24 15:19
S43	13	(US-7176079-$ or US-7064052-$ or US-7001014-$ or US-6974985-$ or US-6694082-$ or US-6664117-$ or US-6511161-$ or US-6494567-$ or US-6455106-$ or US-6432238-$ or US-6194818-$ or US-6146935-$ or US-5998236-$).did.	USPAT	OR	ON	2008/03/24 16:37
S44	5	(US-7176079-$ or US-7064052-$ or US-7001014-$ or US-6974985-$ or US-6694082-$ or US-6664117-$ or US-6511161-$ or US-6494567-$ or US-6455106-$ or US-6432238-$ or US-6194818-$ or US-6146935-$ or US-5998236-$).did. and piezoelectric	USPAT	OR	ON	2008/03/24 16:39
S45	0	(US-7176079-$ or US-7064052-$ or US-7001014-$ or US-6974985-$ or US-6694082-$ or US-6664117-$ or US-6511161-$ or US-6494567-$ or US-6455106-$ or US-6432238-$ or US-6194818-$ or US-6146935-$ or US-5998236-$).did. and piezoelectric and ((rhombohedral or tetragonal) with petrovskite)	USPAT	OR	ON	2008/03/24 16:41
S46	4	(US-7176079-$ or US-7064052-$ or US-7001014-$ or US-6974985-$ or US-6694082-$ or US-6664117-$ or US-6511161-$ or US-6494567-$ or US-6455106-$ or US-6432238-$ or US-6194818-$ or US-6146935-$ or US-5998236-$).did. and piezoelectric and (rhombohedral or tetragonal)	USPAT	OR	ON	2008/03/24 16:42
S48	4	(US-7176079-$ or US-7064052-$ or US-7001014-$ or US-6974985-$ or US-6694082-$ or US-6664117-$ or US-6511161-$ or US-6494567-$ or US-6455106-$ or US-6432238-$ or US-6194818-$ or US-6146935-$ or US-5998236-$).did. and piezoelectric and (rhombohedral or tetragonal) and perovskite and ratio	USPAT	OR	ON	2008/03/24 16:45
S49	4	(US-7001014-$ or US-6511161-$ or US-6494567-$ or US-6194818-$).did.	USPAT	OR	ON	2008/03/24 16:48
S51	1	("347"/ "72") and (piezoelectric with film) and ((first with electrode with film) and (first with thin with film) same (aggregates with columnar)) and ((rhombohedral or tetragonal) with perovskite)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/03/24 17:22
S52	1	("20050127795").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2008/03/24 17:25
S53	0	(US-6969157-$ or US-6494567-$ or US-6194818-$ or US-5998236-$ or US-5691593-$ or US-5438231-$).did. and (diameter with columnar with grain)	USPAT	OR	ON	2008/03/26 13:51
S54	0	(US-6969157-$ or US-6494567-$ or US-6194818-$ or US-5998236-$ or US-5691593-$ or US-5438231-$).did. and (diameter same (columnar adj grain))	USPAT	OR	ON	2008/03/26 13:53
S55	1	(US-6969157-$ or US-6494567-$ or US-6194818-$ or US-5998236-$ or US-5691593-$ or US-5438231-$).did. and (columnar with grain)	USPAT	OR	ON	2008/03/26 13:53
S56	9	"310"/$.ccls. and (diameter with columnar with grain)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/03/26 13:57
S57	2	(US-6515382-$ or US-6402303-$).did.	USPAT	OR	ON	2008/03/26 13:59
S58	1	(US-6515382-$ or US-6402303-$).did. and nm	USPAT	OR	ON	2008/03/26 13:59
S59	184	"310"/$.ccls. and (diameter with grain)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/03/26 14:01
S60	93	"310"/$.ccls. and (diameter with grain) and @pd<="20030305"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/03/26 14:01
S61	7	"310"/$.ccls. and (diameter with grain) and @pd<="20030305" and nm	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/03/26 14:02
S62	1	(US-6511161-$).did. and nm	USPAT	OR	ON	2008/03/26 14:20

S63	16835	takamatsu	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/03/26 14:29
S64	0	takamatsu and claim and "9"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/03/26 14:30
S65	0	takamatsu and claim and ("9")	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/03/26 14:31
S66	0	takamatsu and claim	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/03/26 14:31
S67	0	"takamatsu et al."	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/03/26 14:31
S68	4	(US-7176079-$ or US-7064052-$ or US-7001014-$ or US-6974985-$ or US-6694082-$ or US-6664117-$ or US-6511161-$ or US-6494567-$ or US-6455106-$ or US-6432238-$ or US-6194818-$ or US-6146935-$ or US-5998236-$).did. and piezoelectric and (rhombohedral or tetragonal) and perovskite	USPAT	OR	ON	2008/03/26 14:37
S69	0	"takamatsu.in"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/03/26 14:41
S70	0	"takamatsu.in."	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/03/26 14:41
S71	0	takamatsu and (S64)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/03/26 14:43
S72	7660	takamatsu and "(12)"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/03/26 14:43
S73	0	("Takamatsu et al.")	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/03/26 14:44
S74	4	takamatsu and pzt and columnar and diameter	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/03/26 14:49
S75	1	(09/962452).APP.	USPAT; USOCR	OR	ON	2008/03/26 15:26
S76	1	(US-6624458-$).did.	USPAT	OR	ON	2008/03/26 15:26
S77	1	(US-6624458-$).did.	USPAT	OR	ON	2008/03/26 15:30

S78	1	(US-6455106-$).did.	USPAT	OR	ON	2008/03/26 15:38
S79	7	"6402304"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/03/26 15:39
S80	3	(US-6624458-$ or US-7083269-$ or US-6402304-$).did.	USPAT	OR	ON	2008/03/26 15:41
S81	1	(US-6624458-$ or US-7083269-$ or US-6402304-$).did. and (length or width)	USPAT	OR	ON	2008/03/26 15:41
S82	6	"6402304" and (length or width)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/03/26 15:44
S83	5	pzt and ((columnar with grain) same (length with nm))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/03/26 15:48
S85	3	(US-6624458-$ or US-7083269-$ or US-6402304-$).did. and nm	USPAT	OR	ON	2008/03/26 15:54
S86	2	(US-6624458-$ or US-7083269-$ or US-6402304-$).did. and orientation	USPAT	OR	ON	2008/03/26 16:11
S87	0	(US-6624458-$ or US-7083269-$ or US-6402304-$).did. and mol and (manganese or magnesium)	USPAT	OR	ON	2008/03/26 16:32
S88	2	(US-6624458-$ or US-7083269-$ or US-6402304-$).did. and (manganese or magnesium)	USPAT	OR	ON	2008/03/26 16:33
S89	8	"6705708"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/03/26 16:34
S90	5	(US-6494567-$ or US-6624458-$ or US-7083269-$ or US-6402304-$ or US-6705708-$).did.	USPAT	OR	ON	2008/03/26 17:06
S91	4	(US-6494567-$ or US-6624458-$ or US-7083269-$ or US-6402304-$ or US-6705708-$).did. and orientation	USPAT	OR	ON	2008/03/26 17:07
S92	2	(US-6494567-$ or US-6624458-$ or US-7083269-$ or US-6402304-$ or US-6705708-$).did. and (Pb with Zr with Ti)	USPAT	OR	ON	2008/03/26 17:34
S93	4	(US-6494567-$ or US-6624458-$ or US-7083269-$ or US-6402304-$ or US-6705708-$).did. and Pb	USPAT	OR	ON	2008/03/26 17:36
S94	4	(US-6494567-$ or US-6624458-$ or US-7083269-$ or US-6402304-$ or US-6705708-$).did. and diaphragm	USPAT	OR	ON	2008/03/26 18:08
S95	4	(US-6494567-$ or US-6624458-$ or US-7083269-$ or US-6402304-$ or US-6705708-$).did. and (manganese or magnesium)	USPAT	OR	ON	2008/03/27 06:29
S96	4	(US-6494567-$ or US-6624458-$ or US-7083269-$ or US-6402304-$ or US-6705708-$).did. and Zr	USPAT	OR	ON	2008/03/27 08:15
S97	3	(US-6494567-$ or US-6624458-$ or US-7083269-$ or US-6402304-$ or US-6705708-$).did. and (Pb and Zr and Ti)	USPAT	OR	ON	2008/03/27 08:15
S98	2	(US-6494567-$ or US-6624458-$ or US-7083269-$ or US-6402304-$ or US-6705708-$).did. and (Pb same Zr same Ti)	USPAT	OR	ON	2008/03/27 08:16
S99	2	(US-6494567-$ or US-6624458-$ or US-7083269-$ or US-6402304-$ or US-6705708-$).did. and (Pb with Zr with Ti)	USPAT	OR	ON	2008/03/27 08:16
S100	5	(US-6494567-$ or US-6624458-$ or US-7083269-$ or US-6402304-$ or US-6705708-$).did. and nm	USPAT	OR	ON	2008/03/27 08:55
S101	4	"6455106"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/03/27 09:49
S102	1	(US-6455106-$).did.	USPAT	OR	ON	2008/03/27 09:50

S103	1	"10560001"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/03/28 10:20
S104	50	(US-5683614-$ or US-6091180-$ or US-5754331-$ or US-5814920-$ or US-6088893-$ or US-5874975-$ or US-6197600-$ or US-4387973-$ or US-4401956-$ or US-4805157-$ or US-5240552-$ or US-5281882-$ or US-5283458-$ or US-5371728-$ or US-5406164-$ or US-5448126-$ or US-5606452-$ or US-5639508-$ or US-5683593-$ or US-5757061-$ or US-5757539-$ or US-5805331-$ or US-5822109-$ or US-5831299-$ or US-5860202-$ or US-5877889-$).did. or (US-5930025-$ or US-5949568-$ or US-5991064-$ or US-5998819-$ or US-6043925-$ or US-6093338-$ or US-6104525-$ or US-6136390-$ or US-6162293-$ or US-6165622-$ or US-6203715-$ or US-6232167-$ or US-6262513-$ or US-6263552-$ or US-6278138-$ or US-6329740-$ or US-6332671-$ or US-6333681-$ or US-6373461-$ or US-6400489-$ or US-6440591-$ or US-6487045-$ or US-6515835-$ or US-6687381-$).did.	USPAT	OR	ON	2008/06/11 13:11
S105	5	pzt and ((columnar with grain) same (length with nm))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/06/11 13:12
S106	0	S104 and S105	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/06/11 13:12
S107	0	(S104 and S105) and (pzt or piezo or piezo$electric$2 or perovskite) same (film or layer or thickness or thick) same (crystal or grain or plane) same (columnar or rhombo$hedral or tetra$gonal)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/06/11 13:58
S108	10	(S104 or S105) and (pzt or piezo or piezo$electric$2 or perovskite) same (film or layer or thickness or thick) same (crystal or grain or plane) same (columnar or rhombo$hedral or tetra$gonal)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/06/11 13:59
S109	814	(pzt or piezo or piezo$electric$2 or perovskite) same (film or layer or thickness or thick) same (crystal or grain or plane) same (columnar or rhombo$hedral or tetra$gonal)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/06/11 14:05
S110	14	(pzt or piezo or piezo$electric$2 or perovskite) same (film or layer or thickness or thick) same (crystal or grain or plane) same (columnar or rhombo$hedral or tetra$gonal) SAME(diameter or radius) near ((cross with sectional) OR cross$section$2 OR sectional)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/06/11 14:07
S111	14	(pzt or piezo or piezo$electric$2 or perovskite) same (film or layer or thickness or thick) same (crystal or grain or plane) same (columnar or rhombo$hedral or tetra$gonal) SAME (diameter or radius) near ((cross with sectional) OR cross$section$2 OR sectional)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/06/11 14:10
S112	14	(pzt or piezo or piezo$electric$2 or perovskite) same (film or layer or thickness or thick) and (crystal or grain or plane) same (columnar or rhombo$hedral or tetra$gonal) SAME (diameter or radius) near ((cross with sectional) OR cross$section$2 OR sectional)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/06/11 14:11
S113	25	(US-6194818-$ or US-5998236-$ or US-5691593-$ or US-5438231-$ or US-6494567-$ or US-7176079-$ or US-7064052-$ or US-7001014-$ or US-6974985-$ or US-6694082-$ or US-6664117-$ or US-6511161-$ or US-6455106-$ or US-6432238-$ or US-6146935-$ or US-6515382-$ or US-6402303-$ or US-7291520-$ or US-7083269-$ or US-7067965-$ or US-7033001-$ or US-7022623-$ or US-6969157-$ or US-6932851-$ or US-6846509-$).did.	USPAT	OR	ON	2008/06/11 14:23
S114	39	S112 or S113	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/06/11 14:23
S115	1	(pzt or piezo or piezo$electric$2 or perovskite) same (film or layer or thickness or thick) and (crystal or grain or plane) same (columnar or rhombo$hedral or tetra$gonal) SAME (diameter or radius) near ((cross with sectional) OR cross$section$2 OR sectional) and @pd<="20030305"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/06/11 14:36

S116	14	(pzt or piezo or piezo$electric$2 or perovskite) same (film or layer or thickness or thick) and (crystal or grain or plane) same (columnar or rhombo$hedral or tetra$gonal) SAME (diameter or radius) near ((cross with sectional) OR cross$section$2 OR sectional)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/06/11 14:38
S117	5	("20030098632" | "20040206296" | "20040256948" | "20050127795" | "20050146772").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2008/06/11 15:11
S118	1	("2004/0206296").URPN.	USPAT	OR	ON	2008/06/11 15:16
S119	1	((pzt or piezo or piezo$electric$2 or perovskite) same (film or layer or thickness or thick) and (crystal or grain or plane) same (columnar or rhombo$hedral or tetra$gonal) SAME (diameter or radius) near ((cross with sectional) OR cross$section$2 OR sectional)) and @pd<="20030305"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/06/11 15:22
S120	1	((pzt or piezo or piezo$electric$2 or perovskite) same (film or layer or thickness or thick) and (crystal or grain or plane) same (columnar or rhombo$hedral or tetra$gonal) SAME (diameter or radius) near ((cross with sectional) OR cross$section$2 OR sectional)) and @pd<="20040305"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/06/11 15:25
S121	1	((pzt or piezo or piezo$electric$2 or perovskite) same (film or layer or thickness or thick) and (crystal or grain or plane) and (columnar or rhombo$hedral or tetra$gonal) same (diameter or radius) near ((cross with sectional) or cross$section$2 OR sectional)) and @pd<="20040305"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/06/11 15:28
S122	22	("20030098632" | "20040206296" | "20040256948" | "20050127795" | "20050146772" | "5176033" | "6093338" | "6411017" | "6610361").PN. OR ("2005/0127795" | "2005/0146772" | "2005/0218756" | "2006/0170736" | "3686115" | "7145285" | "7193756" | "7312558").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2008/06/11 15:33
S123	22	(US-20050146772-$ or US-20050127795-$ or US-20040256948-$ or US-20040206296-$ or US-20030098632-$).did. or (US-7312558-$ or US-7193756-$ or US-6911153-$ or US-6610361-$ or US-6590000-$ or US-6444176-$ or US-6411017-$ or US-6093338-$ or US-5176033-$ or US-4961860-$ or US-4597876-$ or US-4362629-$ or US-4076617-$ or US-4031418-$ or US-4013552-$ or US-4003832-$ or US-3974475-$).did.	US-PGPUB; USPAT	OR	ON	2008/06/11 15:34
S124	15	((US-20050146772-$ or US-20050127795-$ or US-20040256948-$ or US-20040206296-$ or US-20030098632-$).did. or (US-7312558-$ or US-7193756-$ or US-6911153-$ or US-6610361-$ or US-6590000-$ or US-6444176-$ or US-6411017-$ or US-6093338-$ or US-5176033-$ or US-4961860-$ or US-4597876-$ or US-4362629-$ or US-4076617-$ or US-4031418-$ or US-4013552-$ or US-4003832-$ or US-3974475-$).did.) and @pd<="20040305"	US-PGPUB; USPAT	OR	ON	2008/06/11 15:34
S125	15	((US-20050146772-$ or US-20050127795-$ or US-20040256948-$ or US-20040206296-$ or US-20030098632-$).did. or (US-7312558-$ or US-7193756-$ or US-6911153-$ or US-6610361-$ or US-6590000-$ or US-6444176-$ or US-6411017-$ or US-6093338-$ or US-5176033-$ or US-4961860-$ or US-4597876-$ or US-4362629-$ or US-4076617-$ or US-4031418-$ or US-4013552-$ or US-4003832-$ or US-3974475-$).did.) and @pd<="20040305" and ((pzt or piezo or piezo$electric$2 or perovskite) or (film or layer or thickness or thick) or (crystal or grain or plane) or (columnar or rhombo$hedral or tetra$gonal) or (diameter or radius) or ((cross with sectional) OR cross$section$2 OR sectional)	US-PGPUB; USPAT	OR	ON	2008/06/11 15:37
S126	139	(pzt or piezo or piezo$electric$2 or perovskite) same (film or layer or thickness or thick) same (crystal or grain or plane) same (columnar or rhombo$hedral or tetra$gonal) SAME ((nano$meter OR nm OR n $meter) OR (micro$meter OR mm OR micro ADJ meter))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/06/11 15:56
S127	1	("2005/0146772").URPN.	USPAT	OR	ON	2008/06/11 16:37
S130	14	(pzt or piezo or piezo$electric$2 or perovskite) same (film or layer or thickness or thick) and (crystal or grain or plane) same (columnar or rhombo$hedral or tetra$gonal) same (diameter or radius) near ((cross with sectional) or cross$section$2 or sectional)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/06/11 16:45
S131	60858	((pzt or piezo or piezo$electric$2 or perovskite) same (film or layer or thickness or thick) samed (crystal or grain or plane) and (columnar or rhombo$hedral or tetra$gonal) same (diameter or radius) near ((cross with sectional) or cross$section$2 OR sectional)) and @pd<="20040305"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/06/11 16:45
S132	41	((pzt or piezo or piezo$electric$2 or perovskite) same (film or layer or thickness or thick) same (crystal or grain or plane) same (columnar or rhombo$hedral or tetra$gonal) SAME ((nano$meter OR nm OR n $meter) OR (micro$meter OR mm OR micro ADJ meter))) and @pd<="20030305"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/06/11 16:53
S133	139	(pzt or piezo or piezo$electric$2 or perovskite) same (film or layer or thickness or thick) same (crystal or grain or plane) same (columnar or rhombo$hedral or tetra$gonal) SAME ((nano$meter OR nm OR n $meter) OR (micro$meter OR mm OR micro ADJ meter))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/06/11 17:14

S134	98	S133 not S132	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/06/11 17:14
S135	20	("20040124482" | "20050082943" | "5657063" | "6402304" | "6565997" | "6609783" | "6616258" | "6688729" | "6945633" | "6960424").PN.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/06/11 17:39
S136	20	("20040124482" | "20050082943" | "5657063" | "6402304" | "6565997" | "6609783" | "6616258" | "6688729" | "6945633" | "6960424").PN.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/06/11 17:42
S137	2	S136 and (pzt or piezo or piezo$electric$2 or perovskite) same (film or layer or thickness or thick) same (crystal or grain or plane) same (columnar or rhombo$hedral or tetra$gonal) SAME ((nano$meter OR nm OR n$meter) OR (micro$meter OR mm OR micro ADJ meter))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/06/11 17:44
S138	9	"6411017"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/06/12 08:27
S139	8	(US-7145285-$ or US-7121650-$ or US-6841817-$ or US-6663231-$ or US-6639340-$ or US-6545387-$ or US-6411017-$).did. or (US-3641017-$).did. or (EP-952000-A-$).did.	USPAT; USOCR; DERWENT	OR	ON	2008/06/12 08:28
S140	1	((US-7145285-$ or US-7121650-$ or US-6841817-$ or US-6663231-$ or US-6639340-$ or US-6545387-$ or US-6411017-$).did. or (US-3641017-$).did. or (EP-952000-A-$).did.) and @pd<="20030305" and (columnar and (grain or crystal)) with diameter	USPAT; USOCR; DERWENT	OR	ON	2008/06/12 08:29
S141	1	((US-7145285-$ or US-7121650-$ or US-6841817-$ or US-6663231-$ or US-6639340-$ or US-6545387-$ or US-6411017-$).did. or (US-3641017-$).did. or (EP-952000-A-$).did.) and @pd<="20030305" and (columnar and (grain or crystal)) with diameter and pzt	USPAT; USOCR; DERWENT	OR	ON	2008/06/12 08:32
S142	156	((pzt or piezo or piezo$electric$2 or perovskite) same (crystal or grain) same (columnar or rhombo$hedral or tetra$gonal)) same ((nano$meter or nm OR n$meter) or (micro$meter or mm or micro ADJ meter))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/06/12 12:41
S143	0	((pzt or piezo or piezo$electric$2 or perovskite) same (crystal or grain) same (columnar or rhombo$hedral or tetra$gonal)) same ((nano$meter or nm OR n$meter) or (micro$meter or mm or micro ADJ meter)) and ("40,41,42,43,44,45,46,47,48,49,50,51,52,53,54,55,56,57,58,59,60,61,62,63,64,65,66,67,68,69,70")	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/06/12 12:46
S144	0	((pzt or piezo or piezo$electric$2 or perovskite) same (crystal or grain) same (columnar or rhombo$hedral or tetra$gonal)) same ((nano$meter or nm OR n$meter) or (micro$meter or mm or micro ADJ meter)) and ("40","41","42","43","44","45","46","47","48","49","50","51","52","53","54","55","56","57","58","59","60","61","62","63","64","65","66","67","68","69","70")	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/06/12 12:48
S145	119	((pzt or piezo or piezo$electric$2 or perovskite) same (crystal or grain) same (columnar or rhombo$hedral or tetra$gonal)) same ((nano$meter or nm OR n$meter) or (micro$meter or mm or micro ADJ meter)) and ("40", "41", "42", "43", "44", "45", "46", "47", "48", "49", "50", "51", "52", "53", "54", "55", "56", "57", "58", "59", "60", "61", "62", "63", "64", "65", "66", "67", "68", "69", "70")	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/06/12 12:49
S146	67	((pzt or piezo or piezo$electric$2 or perovskite) same (crystal or grain) same (columnar or rhombo$hedral or tetra$gonal)) same ((nano$meter or nm OR n$meter) or (micro$meter or mm or micro ADJ meter)) and ("40", "41", "42", "43", "44", "45", "46", "47", "48", "49", "50", "51", "52", "53", "54", "55", "56", "57", "58", "59", "60", "61", "62", "63", "64", "65", "66", "67", "68", "69", "70") adj nm	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/06/12 12:51

S147	16	((pzt or piezo or piezo$electric$2 or perovskite) same (crystal or grain) same (columnar or rhombo$hedral or tetra$gonal)) same ((nano$meter or nm OR n$meter) or (micro$meter or mm or micro ADJ meter)) and (("40", "41", "42", "43", "44", "45", "46", "47", "48", "49", "50", "51", "52", "53", "54", "55", "56", "57", "58", "59", "60", "61", "62", "63", "64", "65", "66", "67", "68", "69", "70") adj nm) and @pd<="20030305"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/06/12 12:53
S148	3	((pzt or piezo or piezo$electric$2 or perovskite) same (crystal or grain) same (columnar or rhombo$hedral or tetra$gonal)) same ((nano$meter or nm OR n$meter) or (micro$meter or mm or micro ADJ meter)) and ((("40", "41", "42", "43", "44", "45", "46", "47", "48", "49", "50", "51", "52", "53", "54", "55", "56", "57", "58", "59", "60", "61", "62", "63", "64", "65", "66", "67", "68", "69", "70") adj nm) with (pzt)) and @pd<="20030305"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/06/12 12:54
S149	0	((pzt or piezo or piezo$electric$2 or perovskite) same (crystal or grain) same (columnar or rhombo$hedral or tetra$gonal)) same ((nano$meter or nm OR n$meter) or (micro$meter or mm or micro ADJ meter)) and ((("40", "41", "42", "43", "44", "45", "46", "47", "48", "49", "50", "51", "52", "53", "54", "55", "56", "57", "58", "59", "60", "61", "62", "63", "64", "65", "66", "67", "68", "69", "70", "71", "72", "73", "74", "75", "76", "77", "78", "79", "80", "81", "82", "83", "84", "85", "86", "87", "88", "89", "90", "91", "92", "93", "94", "95", "96", "97", "98", "99", "100") adj nm) with (pzt) with (length or width)) and @pd<="20030305"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/06/12 13:13
S150	4	((pzt or piezo or piezo$electric$2 or perovskite) same (crystal or grain) same (columnar or rhombo$hedral or tetra$gonal)) same ((nano$meter or nm OR n$meter) or (micro$meter or mm or micro ADJ meter)) and ((("40", "41", "42", "43", "44", "45", "46", "47", "48", "49", "50", "51", "52", "53", "54", "55", "56", "57", "58", "59", "60", "61", "62", "63", "64", "65", "66", "67", "68", "69", "70", "71", "72", "73", "74", "75", "76", "77", "78", "79", "80", "81", "82", "83", "84", "85", "86", "87", "88", "89", "90", "91", "92", "93", "94", "95", "96", "97", "98", "99", "100") adj nm) with (pzt)) and @pd<="20030305"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/06/12 13:17
S151	2	((pzt or piezo or piezo$electric$2 or perovskite) same (crystal or grain) same (columnar or rhombo$hedral or tetra$gonal)) same ((("40", "41", "42", "43", "44", "45", "46", "47", "48", "49", "50", "51", "52", "53", "54", "55", "56", "57", "58", "59", "60", "61", "62", "63", "64", "65", "66", "67", "68", "69", "70", "71", "72", "73", "74", "75", "76", "77", "78", "79", "80", "81", "82", "83", "84", "85", "86", "87", "88", "89", "90", "91", "92", "93", "94", "95", "96", "97", "98", "99", "100") adj nm) with (pzt)) and @pd<="20030305"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/06/12 13:22
S152	6	((pzt or piezo or piezo$electric$2 or perovskite) same (crystal or grain) same (columnar or rhombo$hedral or tetra$gonal)) same ((("40", "41", "42", "43", "44", "45", "46", "47", "48", "49", "50", "51", "52", "53", "54", "55", "56", "57", "58", "59", "60", "61", "62", "63", "64", "65", "66", "67", "68", "69", "70", "71", "72", "73", "74", "75", "76", "77", "78", "79", "80", "81", "82", "83", "84", "85", "86", "87", "88", "89", "90", "91", "92", "93", "94", "95", "96", "97", "98", "99", "100") adj nm) same (pzt)) and @pd<="20030305"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/06/12 13:26
S153	1	((pzt with aspect) same (crystal or grain) same (columnar or rhombo$hedral or tetra$gonal)) same ((("40", "41", "42", "43", "44", "45", "46", "47", "48", "49", "50", "51", "52", "53", "54", "55", "56", "57", "58", "59", "60", "61", "62", "63", "64", "65", "66", "67", "68", "69", "70", "71", "72", "73", "74", "75", "76", "77", "78", "79", "80", "81", "82", "83", "84", "85", "86", "87", "88", "89", "90", "91", "92", "93", "94", "95", "96", "97", "98", "99", "100") adj nm) same (pzt)) and @pd<="20030305"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/06/12 13:30
S154	39	(pzt with (aspect adj ratio))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/06/12 13:46
S155	9	(pzt with (aspect adj ratio)) and @pd<="20030305"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/06/12 13:46
S156	29	(US-20050146772-$).did. or (US-6194818-$ or US-5998236-$ or US-5691593-$ or US-5438231-$ or US-6494567-$ or US-7176079-$ or US-7064052-$ or US-7001014-$ or US-6974985-$ or US-6694082-$ or US-6664117-$ or US-6511161-$ or US-6455106-$ or US-6432238-$ or US-6146935-$ or US-6515382-$ or US-6402303-$ or US-7312558-$ or US-6402304-$ or US-7291520-$ or US-7083269-$ or US-7067965-$ or US-7033001-$ or US-7022623-$ or US-6969157-$ or US-6932851-$).did. or (US-6846509-$ or US-5950292-$).did.	US-PGPUB; USPAT	OR	ON	2008/06/17 13:39
S157	6	US-6494567-$ or US-6455106-$ or US-6624458-$ or US-7083269-$ or US-6402304-$ or US-6705708-$).did.	USPAT	OR	ON	2008/06/17 13:44
S158	2	"20020168831"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/06/17 16:14
S159	1	(US-20020168831-$).did.	US-PGPUB	OR	ON	2008/06/17 16:14

10/14/2008 9:27:33 PM
C:\ Documents and Settings\ awitkowski\ My Documents\ EAST\ Workspaces\ 10560001.wsp